

What's Up?

November 1-30, 2023



Made with the 2023 RASC Observer's Handbook, 2023
Night Sky Almanac, Sky Safari®, and Stellarium®

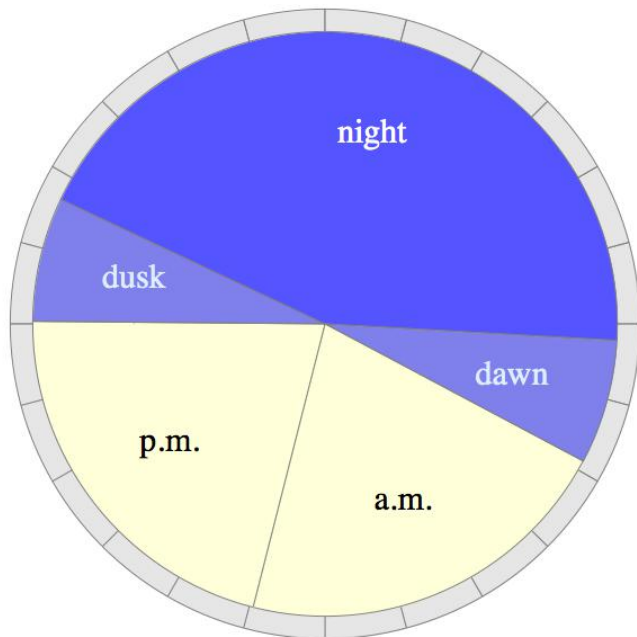
photo: David Hoskin

The Sun This Month

[Today's Solar Activity](#)

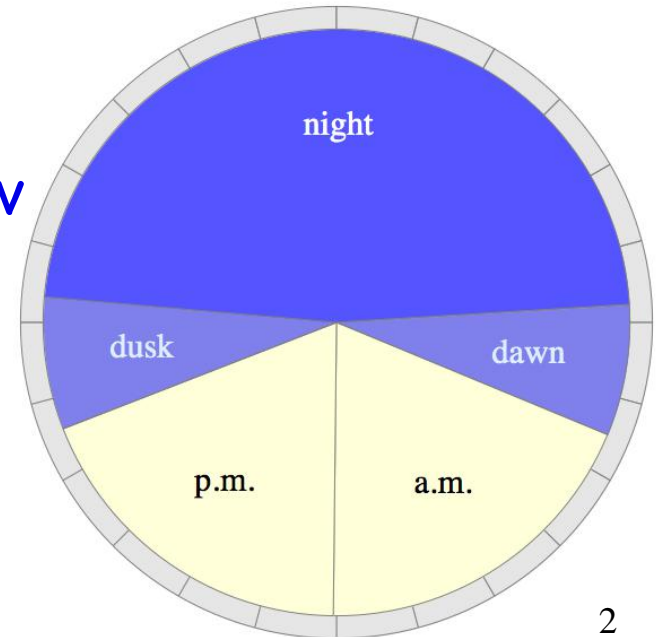
Date	Sunset	Dusk End	Darkness	Dawn Start	Sunrise	“Noon”	Sunlight	Max Altitude
Nov 1	6:03 p.m.	7:42 p.m.	10.5 h	6:12 a.m.	7:51 a.m.	12:57 p.m.	10.2 h	31°
Nov 30	4:35 p.m.	6:20 p.m.	11.4 h	5:45 a.m.	7:29 a.m.	12:02 p.m.	9.1 h	24°

Halifax Nov 01



Standard Time
in effect
Sunday 5 Nov

Halifax Nov 30



The Moon This Month

Date	Phase	English	Mi'kmaq
Nov 5	<i>Last Quarter</i>	Animal Fattening	Wikewiku's
Nov 6	S Taurid Meteor Shower Peak		
Nov 9	Moon & Venus conjunction		
Nov 13	<i>New Moon</i>	Rivers Freezing Over	Keptekewiku's
Nov 14	N Taurid Meteor Shower Peak		
Nov 18	Leonid Meteor Shower Peak		
Nov 20	<i>First Quarter</i>		
Nov 20	Moon near Saturn		
Nov 24-25	Moon near Jupiter		
Nov 26	Moon near Pleiades		
Nov 27	<i>Full Moon</i>		

challenge

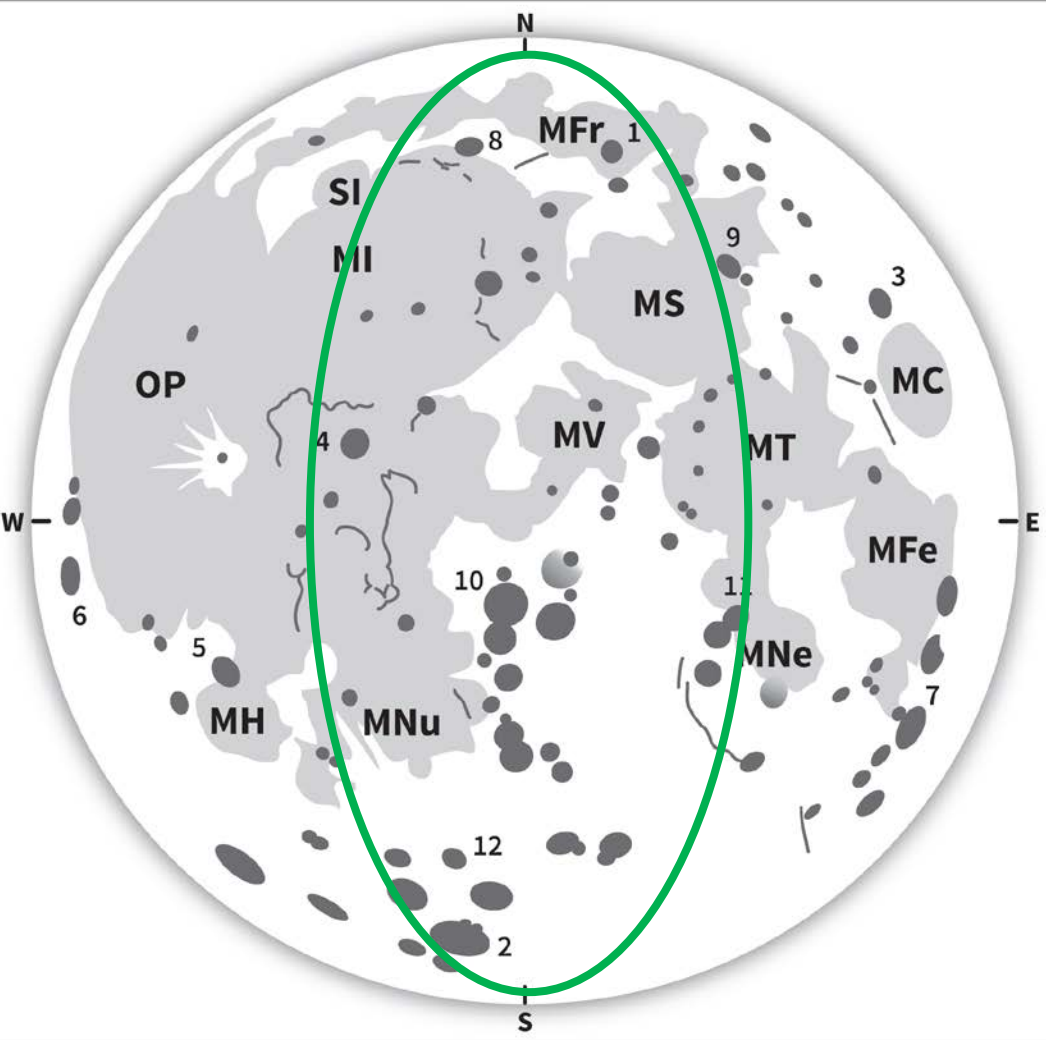


Nov 9 @ 5:30 a.m. Celestron 15x70 binoculars



FOV 4.4° 17.9 FPS 2023-11-26 18:37:40 UTC-04:00

Nov 26 @ 7:00 p.m. Celestron 15x70 binoculars



MARE

- MC: Mare Crisium
- MFe: Mare Fecunditatis
- MFr: Mare Frigoris
- MH: Mare Humorum
- SI: Sinus Iridum
- MI: Mare Imbrium
- MNe: Mare Nectaris
- MNu: Mare Nubium
- MS: Mare Serenitatis
- MT: Mare Tranquillitatis
- MV: Mare Vaporum
- OP: Oceanus Procellarum

November 18-22

The Moon in

Explore the Universe

observe 3 of each in binoculars⁶

CRATERS

- | | | |
|----------------|---------------|----------------|
| 1. Aristoteles | 5. Gassendi | 10. Ptolomaeus |
| 2. Clavius | 6. Grimaldi | 11. Theophilus |
| 3. Cleomedes | 7. Petavius | 12. Tycho |
| 4. Copernicus | 8. Plato | |
| | 9. Posidonius | |

challenge

The Planets in November

Mercury-visible by mid month after sunset low in the SW sky (mag. - 0.4)

Venus -prominent in the eastern morning sky (mag. -4.4)
-conjunction with waning crescent Moon on Nov 9

challenge

Mars -too close to the Sun to be visible

Zodiacal Light visible in eastern sky before morning twilight starting October 13

Jupiter -rises after sunset (mag. -2.9)
-achieves opposition on Nov 3
-near the waxing gibbous Moon on Nov 25

Saturn -well above the eastern horizon in evening twilight (mag. 0.8)
-close to first quarter Moon on Nov 20

Uranus -visible for most of the night (mag. 5.8) between Aries and Taurus
-achieves opposition on Nov 13

Neptune-visible for most of the night (mag. 7.8) in Pisces

Explore the Universe:

Autumn Constellations

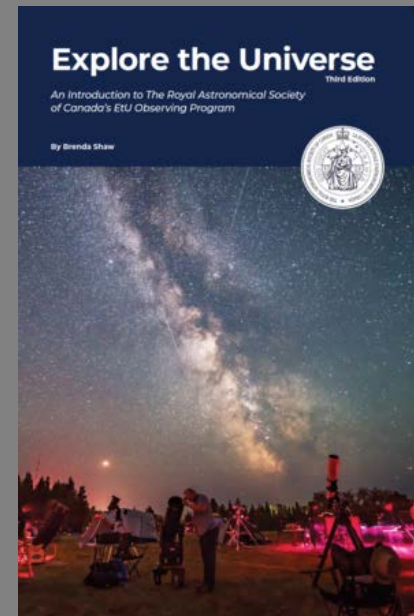
Pegasus

Andromeda

Cassiopeia

Perseus

Aries





Explore the Universe:

Autumn Stars

Ranking:

#35 Mirfak (N)

Hamal (N)

Alpheratz (N)

Algol

Schedar (N)

Markab

Sheratan

N = Navigation

all good for SynScan alignment

Explore the Universe: Autumn Deep-Sky Objects

Messier 31 (Andromeda Galaxy)

Barred spiral galaxy

M32 and M110 are satellites

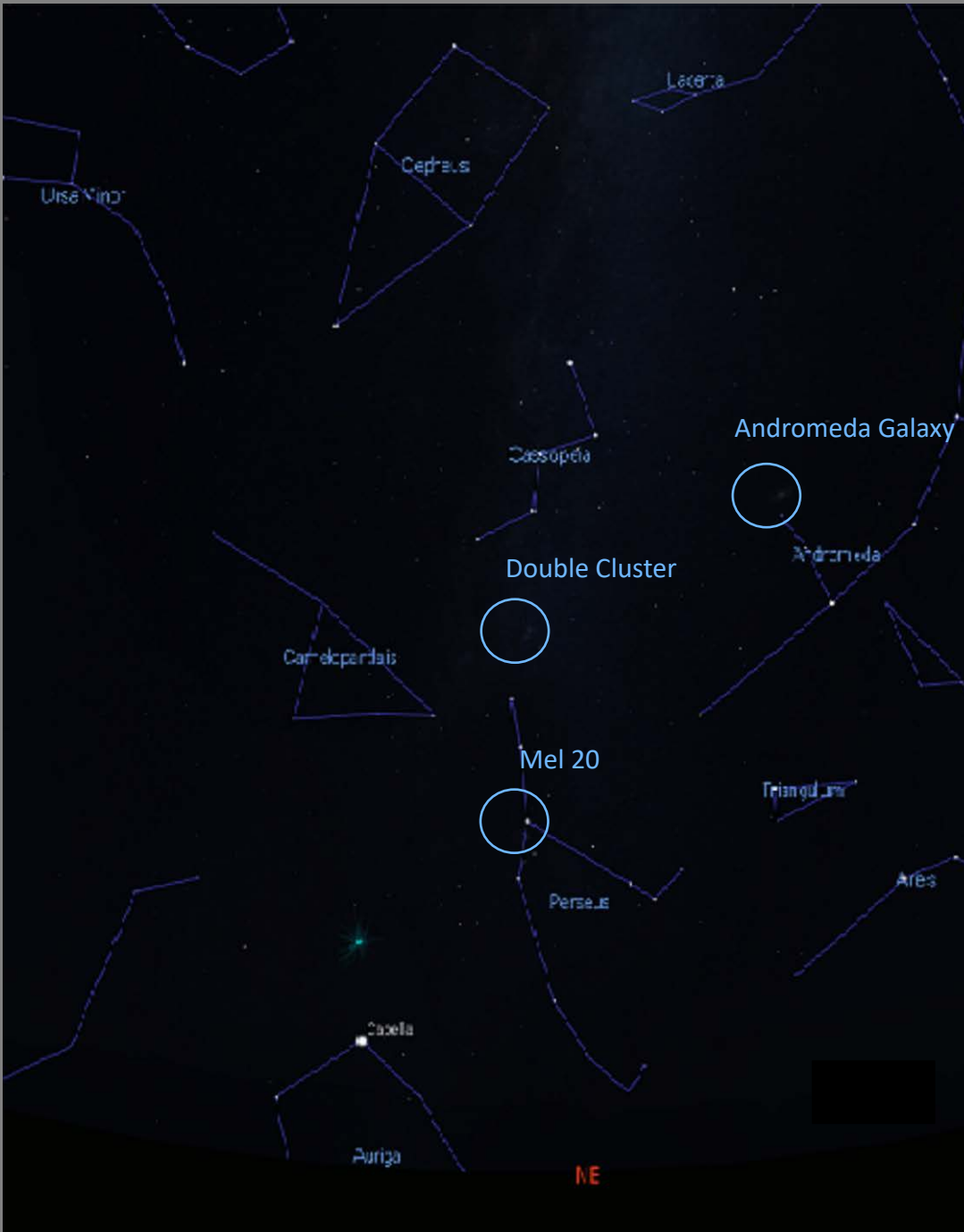


photo: David Hoskin



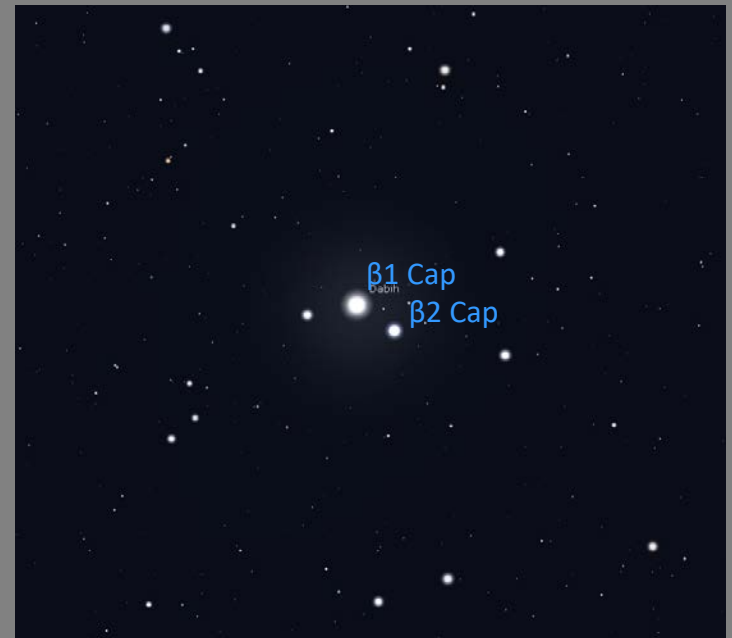
Explore the Universe: Double Star

$\beta 1$ & $\beta 2$ Capricorni (3.2, 6.1, 207")

Binocular double star (look after sunset) that is actually 5 stars

$\beta 1$ Cap (Dabih) is an orange giant

$\beta 2$ Cap is a white giant



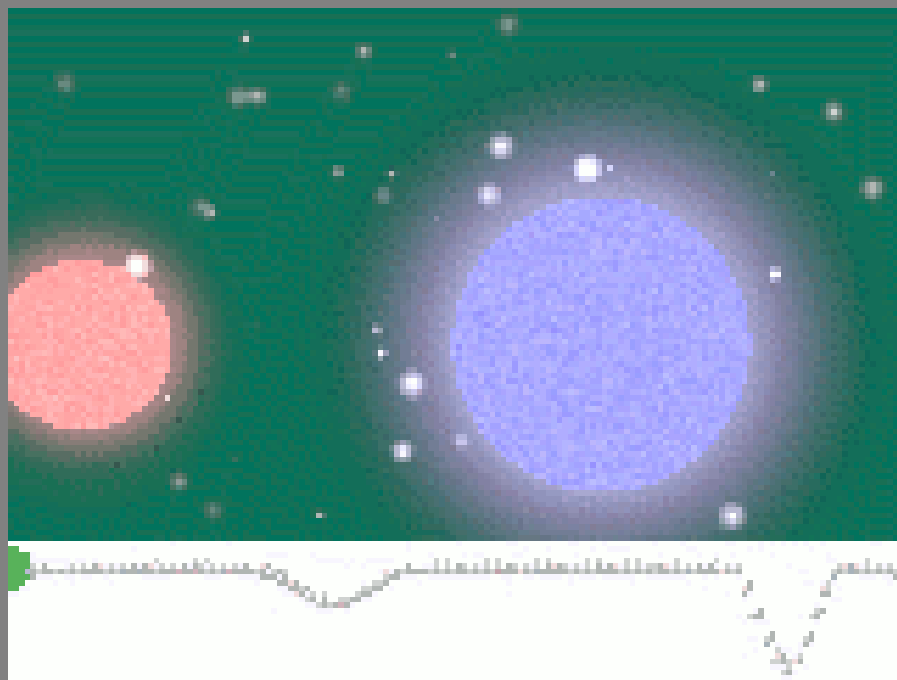
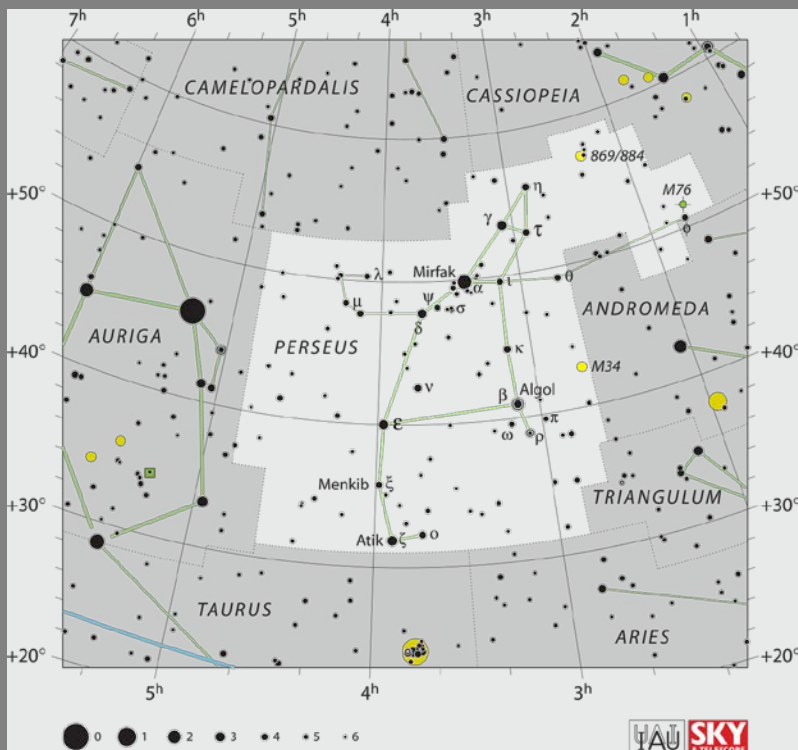
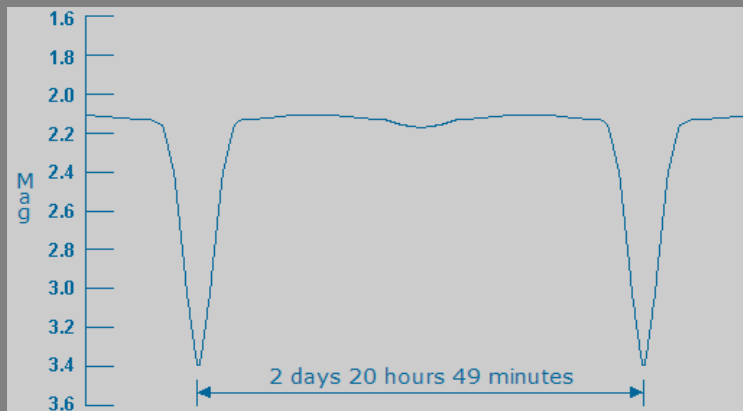
Algol (β Persei)

Nov 24 maximum 6:09 p.m. (mag. 2.2)

Nov 24 minimum 9:39 p.m. (mag. 3.2)

Nov 25 maximum 1:29 a.m. (mag. 2.2)

challenge



Comet 12P/Pons-Brooks

- Currently in the constellation Hercules
- Current observed magnitude 11.7
- First outburst in July 2023
- May become visible to the unaided eye in April 2024

challenge



Questions?

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photo: David Hoskin